Name of work:Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

			Estimate Cost Rs.					10000000	
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	**Dismantling** cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200 m (within average thickness of 15 cms), No. 270 Item No. 37.51 PWD SR 2018-19	Sqm							
	Kariyanna layout 3rd Cross		1	100	6		570		
	Aprroach Road		1	85	6		485		
							1055	**91**	**96128**
	Basic Rate	86							
	Area Weightage @ 6%	5							
	Total	91							
2	KSRRB 300-1. **Earth work excavation** by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. P No. 143/ Item No. 19.1/ PWD SR 2018-19	Cum							
	Culverts		6	6	2	1	94		
	New RCC Drain								
	Kariyanna Layout Main Road		2	250	1	1	405		
	Slab Drain								
	kariyanna layout 2nd Cross		2	115	1	1	186		
	Road Surface								
	Kariyanna layout 3rd Cross		1	100	6	0	171		
	Kariyanna layout 2nd Cross		1	120	6	0	216		
	Kariyanna layout 2nd cross 1st sub road		1	53	5	0	80		
	Kariyanna layout 2nd cross 2nd sub road		1	55	5	0	83		
	Kariyanna layout 2nd cross 3rd sub road		1	55	5	0	83		
	Aprroach Road		1	85	6	0	145		
							1462	**138**	**201449**
	Basic Rate	130							
	Area Weightage @ 6%	8							
	Total	138							
3	ksrrb m300 - 54 Construction of **embankment** with approved material deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requiremnet of table 300-2 complete as per specification which includes watering charges and compaction by vibratory roller. morth specification no 305. 19.61 page no 147	Cum							

	Road Surface								
	Kariyanna layout 3rd Cross		1	100	6	0	171		
	Kariyanna layout 2nd Cross		1	120	6	0	216		
	Kariyanna layout 2nd cross 1st sub road		1	53	5	0	80		
	Kariyanna layout 2nd cross 2nd sub road		1	55	5	0	83		
	Kariyanna layout 2nd cross 3rd sub road		1	55	5	0	83		
	Aprroach Road		1	85	6	0	145		
							777	**101**	**78229**
	Basic Rate	95							
	Area Weightage @ 6%	6							
	Total	101							
4	KSRRB M300-59.2: **loosening, leveling and compacting** original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in table 300-2 for embankment construction, complete as per specifications, case-II: compacting original ground supporting embankment, (which includes watering charges & compaction by vibratory roller) MORTH specification No. 3.5.3.4 Page No. 146. Item No. 19.66/ PWD SR 2018-19	Sqm							
	Kariyanna layout 3rd Cross		1	100	6		570		
	Kariyanna layout 2nd Cross		1	120	6		720		
	Kariyanna layout 2nd cross 1st sub road		1	53	5		265		
	Kariyanna layout 2nd cross 2nd sub road		1	55	5		275		
	Kariyanna layout 2nd cross 3rd sub road		1	55	5		275		
	Aprroach Road		1	85	6		485		
							2590	**24**	**63132**
	Basic Rate	23							
	Area Weightage @ 6%	1							
	Total	24							
5	KSRB-4-1.3 : Providing and laying in position **plain cement concrete** of mix M 1:4:8 with OPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 13/ Item No. 4.3/ PWD SR 2018-19	Cum							
	Kariyanna Layout Main Road Drain		2	250	1	0	69		
	For Concrete Road								
	Kariyanna layout 3rd Cross		1	100	6	0	86		
	Kariyanna layout 2nd Cross		1	120	6	0	108		
	Kariyanna layout 2nd cross 1st sub road		1	53	5	0	40		
	Kariyanna layout 2nd cross 2nd sub road		1	55	5	0	41		
	Kariyanna layout 2nd cross 3rd sub road		1	55	5	0	41		
	Aprroach Road		1	85	6	0	73		

	For Culverts		6	6	2	0	12		
	Culverts side wall		6X2	6	1	0	6		
	Culverts Vent Bed		6	6	1	0	5		
							480	**5408**	**2597227**
	Basic Rate	5102							
	Area Weightage @ 6%	306							
	Total	5408							
3	Providing **granite slabs** of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 27/ Item No. 5.31.1/ PWD SR 2018-19 (size: 3x0.45)	Sqm							
	Slab Drain								
	kariyanna layout 2nd Cross		2	115		1	311		
							311	**837**	**260013**
	Basic Rate	700							
	Area Weightage @ 6%	42							
	Load unloading 15km lead & lift	95							
	Total	837							
6	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size **stone masonry** in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2018-19	Cum							
	Culverts		6X2	6	0	1	20		
							20	**4872**	**97864**
	Basic Rate	4596							
	Area Weightage @ 6%	276							
	Total	4872							
7	KSRB 4-6.7 : Providing and removing **centering, shuttering, strutting**, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2018-19	Sqm							
	Kariyanna Layout Main Road drain		2X4	250		1	1200		
	For Culverts		6	6		1	22		
							1222	**310**	**378332**
	Basic Rate	292							
	Area Weightage @ 6%	18							
	Total	310							
9	KSRB 15.1: Providing Flush pointing to coursed **stone masonry** with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 115/ Item No. 15.1.3/ PWD SR 2018-19	Sqm							
	Culverts		6X2	6		1	45		
							45	**149**	**6672**
	Basic Rate	141							

	Area Weightage @ 6%	8							
	Total	149							
10	KSRB 4.2.2 : Providing and laying in position **plain cement concrete of mix M20** withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 14/ Item No. 4.11/ PWD SR 2018-19	Cum							
	For New RCC Drains								
	Bottom Concrete		2	250	1	0	56		
	Side Walls		2X2	250	0	1	90		
							146	**5999**	**877286**
	Basic Rate	5659							
	Area Weightage @ 6%	340							
	Total	5999							
11	**RCC Covering slabs for culverts Data rate:5111rs/Piece)**	No's	72				72		
	Data Rate						72	**5111**	**367992**
12	KSRB 4.9.2:providing **T.M.T steel** reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 18/ Item No. 4.46.2/ PWD SR 2018-19	Tonne							
	0.60Ton/Cum		0	146			9	**75224**	**660090**
	Basic Rate	70966							
	Area Weightage @ 6%	4258							
	Total	75224							
13	**Precast slab** 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							

	Kariyanna Layout Main Road		2	250	1		450		
							450	**2100**	**945000**
	Data Rate	2100							
14	5.29(b) Providing and fixing pre cast solid cement concrete **kerb stones** made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 27/ Item No. 5.30/ PWD SR 2018-19	Sqm							
	Kariyanna Layout Main Road		2	250			500		
							500		
				I e 950/0.45			1111		
							1111	**432**	**480533**
	Basic Rate	408							
	Area Weightage @ 6%	24							
	Total	432							
15	KSRB 15-17.5: Applying **priming coat** over new wood surface and / or wood based surface preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. Page No. 120/ Item No. 15.59 / PWD SR 2018-19	Sqm							
	Kariyanna Layout Main Road		2	250		0	150		
							150	**53**	**7950**
	Basic Rate	50							
	Area Weightage @ 6%	3							
	Total	53							
16	KSRB 15-17.6: Providing and applying **painting** two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.Page No. 121/ Item No. 15.60.1 / PWD SR 2018-19								
	Kariyanna Layout Main Road		2	250		0	150		
							150	**66**	**9858**
	Basic Rate	62							
	Area Weightage @ 6%	4							
	Total	66							
17	Constructing un-reienforced palne **cemetn conctere** for pavements using rate concrete M30 Over a prepared base with OPC course aggregate at 0.69cum fine aggregates at 0.64cum course anf fine aggregate confirming to IS:383:2016 with super plasticizers at 3mte of its confirming IS:9103-2008. Item no22.6 page no-175	Cum							
	Kariyanna layout 3rd Cross		1	100	6	0	57		

	Kariyanna layout 2nd Cross		1	120	6	0	72		
	Kariyanna layout 2nd cross 1st sub road		1	53	5	0	27		
	Kariyanna layout 2nd cross 2nd sub road		1	55	5	0	28		
	Kariyanna layout 2nd cross 3rd sub road		1	55	5	0	28		
	Aprroach Road		1	85	5	0	43		
							253	5211	1318373
	Basic Rate	4916							
	Area Weightage @ 6%	295							
	Total	5211							
18	KSRRB M2600-3: (ii) Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & technical specification complete as per specifications, MORTH specification No. 2605, No. 233/ Item No. 31.3 PWD SR 2015-16	M							
	Kariyanna layout 3rd Cross		45	6			257		
	Kariyanna layout 2nd Cross		45	6			270		
	Kariyanna layout 2nd cross 1st sub road		22	5			110		
	Kariyanna layout 2nd cross 2nd sub road		22	5			110		
	Kariyanna layout 2nd cross 3rd sub road		22	5			110		
	Aprroach Road		30	5			150		
							1007	136	136562
	Basic Rate	128							
	Area Weightage @ 6%	8							
	Total	136							
19	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 171/ Item No. 22.7/ PWD SR 2018-19	Sqm							
	Kariyanna layout 3rd Cross		1	100	6		570		
	Kariyanna layout 2nd Cross		1	120	6		720		
	Kariyanna layout 2nd cross 1st sub road		1	53	5		265		
	Kariyanna layout 2nd cross 2nd sub road		1	55	5		275		
	Kariyanna layout 2nd cross 3rd sub road		1	55	5		275		
	Aprroach Road		1	85	5		425		
							2530	72	182362
	Basic Rate	68							
	Area Weightage @ 6%	4							
	Total	72							
							Grand Total		8765052
21	For 12% Applicable GST								1051806
22	For 2% PMC Charges								175301
23	Miscesallaneous Charges	L/S							7841
									10000000

Technical Sanction
Accorded For R.C.C. in slab and sunk
Head of A/C..P-3111.....
CER NO :..317..... Dt:..07.03.2019